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PATENT
SP00-370
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Thorsten Boger

AMENDMENT

Serial No.: 09/746,209

Group Art Unit: 1314

Filing Date: 12/21/2000

Examiner: Hien Thi Tran

Title: Monolith Loop Reactors

BOX NON-FEE AMENDMENT
Assistant Commissioner for Patents
Washington, DC 20231

CERTIFICATE OF MAILING (37 CFR 1.8a)
I hereby certify that this correspondence is being deposited
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Commissioner for Patents, Washington, DC 20231, on
March 12, 2003.

Kees van der Sterre
Kees van der Sterre

Sir:

In response to the Office Letter mailed herein on December 12, 2002, please amend
the above-entitled application as follows:

IN THE SPECIFICATION

Page 6, last full paragraph:

AN

The monolithic loop reactor embodiments 40 shown in Figs. 3, 4, 5 and 6
are adapted for a three-phase or solid catalyzed gas/liquid reaction, and have a
recirculating gas feed system with a control valve 38. It will be noted that the
position of the honeycomb monolithic substrate 12 of Fig. 3 is similar to that of Fig. 1,
whereas the position of the honeycomb monolithic substrate 32 of Figs. 4, 5 and 6, is
similar to that of Fig. 2. However, the internal flow agitator utilized in the
embodiments of Figs. 3 and 4 is in the form of a gas header or sparger. In Fig. 3,
the header or sparger 42 is in the form of a disk positioned within container 14 below
monolith or monolithic substrate 12, whereas in Fig. 4, the header or sparger 44 is in
the form of a ring or annulus and positioned within container 34 below monolith or
monolithic substrate 32.